

Amendments

Please amend the above-identified application as follows:

In the Claims:

Add new claim 25 as set forth below. All claims are reproduced below for the Examiner's convenience.

SUB D17 1. A method of recovery from failures within a shared nothing distributed computing environment, said method comprising:

detecting a failure within said shared nothing distributed computing environment;
and

automatically recovering from said failure, wherein one or more transactions affected by said failure are automatically executed to completion without rolling back said one or more transactions and without requiring a reposting of said one or more transactions.

C1 2. A system of recovery from failures within a shared nothing distributed computing environment, said system comprising:

means for detecting a failure within said shared nothing distributed computing environment; and

means for automatically recovering from said failure, wherein one or more transactions affected by said failure are automatically executed to completion without rolling back said one or more transactions and without requiring a reposting of said one or more transactions.

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3. At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to perform a method of recovery from failures within a shared nothing distributed computing environment, said method comprising:

detecting a failure within said shared nothing distributed computing environment;
and

automatically recovering from said failure, wherein one or more transactions affected by said failure are automatically executed to completion without rolling back said one or more transactions and without requiring a reposting of said one or more transactions.

4. The method of claim 1, wherein the shared nothing distributed computing environment comprises a processing group with a plurality of members, and wherein the detecting comprises detecting a failure of at least one of the plurality of members.

5. The method of claim 4, wherein the recovering comprises synchronizing messages regarding the one or more transactions among surviving members of the processing group.

6. The method of claim 5, wherein the recovering further comprises committing the one or more transactions.

7. The method of claim 4, wherein at least one member of the processing group survives the failure, and wherein the recovering comprises electing a coordinator from among the at least one surviving member.

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8. The method of claim 7, wherein the recovering further comprises receiving by the coordinator a list of the one or more transactions from the other surviving members.

9. The method of claim 8, wherein the recovering further comprises receiving by the coordinator any commit protocol messages for the one or more transactions the coordinator does not already have.

10. The method of claim 9, wherein the coordinator initiates the commit protocol for the one or more transactions.

11. The system of claim 2, wherein the shared nothing distributed computing environment comprises a processing group with a plurality of members, and wherein the means for detecting comprises means for detecting a failure of at least one of the plurality of members.

12. The system of claim 11, wherein the means for recovering comprises means for synchronizing messages regarding the one or more transactions among surviving members of the processing group.

13. The system of claim 12, wherein the means for recovering further comprises means for committing the one or more transactions.

14. The system of claim 11, wherein at least one member of the processing group survives the failure, and wherein the means for recovering comprises means for electing a coordinator from among the at least one surviving member.

15. The system of claim 14, wherein the means for recovering further comprises means for receiving by the coordinator an indication of the one or more transactions from the other surviving members.

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16. The system of claim 15, wherein the means for recovering further comprises means for receiving by the coordinator any commit protocol messages for the one or more transactions the coordinator does not already have.
17. The system of claim 16, wherein the means for recovering further comprises means for the coordinator to initiate the commit protocol for the one or more transactions.
18. The at least one program storage device of claim 3, wherein the shared nothing distributed computing environment comprises a processing group with a plurality of members, and wherein the detecting comprises detecting a failure of at least one of the plurality of members.
19. The at least one program storage device of claim 18, wherein the recovering comprises synchronizing messages regarding the one or more transactions among surviving members of the processing group.
20. The at least one program storage device of claim 19, wherein the recovering further comprises committing the one or more transactions.
21. The at least one program storage device of claim 18, wherein at least one member of the processing group survives the failure, and wherein the recovering comprises electing a coordinator from among the at least one surviving member.
22. The at least one program storage device of claim 21, wherein the recovering further comprises receiving by the coordinator a list of the one or more transactions from the other surviving members.
23. The at least one program storage device of claim 22, wherein the recovering further comprises receiving by the coordinator any commit protocol messages for the one or more transactions the coordinator does not already have.

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24. The at least one program storage device of claim 23, wherein the coordinator initiates the commit protocol for the one or more transactions.

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25. (New) The method of claim 1, wherein the shared nothing distributed computing environment comprises a distributed synchronous transaction system, and wherein the method comprises a failure recovery method for the distributed synchronous transaction system.
